



Integrated Gram Panchayat Development Plan under MGNREGA using Geospatial Technology

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NIRD&PR, Hyderabad**

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GIZ-MoRD Project 'Environmental Benefits of Mahatma Gandhi NREGA'



I. Introduction to Integrated Gram Panchayat Development Planning under MGNREGA



MGNREGA and Gram Panchayat Development Plan

- Gram Panchayats have been mandated for the preparation of Gram Panchayat Development Plan (GPDP) for economic development and social justice.
- The GPDP planning process has to be comprehensive and based on participatory process which involves full convergence with Schemes of all related Central Ministries / Line Departments related to 29 subjects listed in the Eleventh Schedule of the Constitution.
- **260 kinds of works** have been identified as permissible works under MGNREGS.



MGNREGA and Gram Panchayat Development Plan

Addressed Directly

1. Agriculture.
2. Land Improvement.
3. Minor Irrigation.
4. Animal Husbandry.
5. Fisheries
6. Social Forestry.
7. Minor Forest Produce.
8. Fuel and fodder
9. Roads
10. Markets and fairs (Rural Haat).

Addressed through Convergence

1. Rural Housing (PMGAY).
2. Drinking Water (RTWH)
3. Poverty alleviation programme.
4. Education (School Boundary Wall & Toilet).
5. Health and sanitation.
6. Women and child development (Anganwadi Centre).
7. Social welfare.
8. Welfare of the weaker sections.
9. Public distribution system (Food Grain Storage).
10. Maintenance of community assets.

[Jawad- GPDP Gaps.pdf](#)

Addressed Partially/Indirectly

1. Small scale industries. (working shed for SHGs & FPOs)
2. Cultural activities. (construction Activity Place)
3. Khadi, village and cottage industries. (working shed for SHGs & FPOs)
4. Non-conventional energy (Bio-Fuel)
5. Vocational education (LIFE).
6. Adult and non-formal education (LIFE).
7. Rural Electrification
8. Family welfare.
9. Libraries.

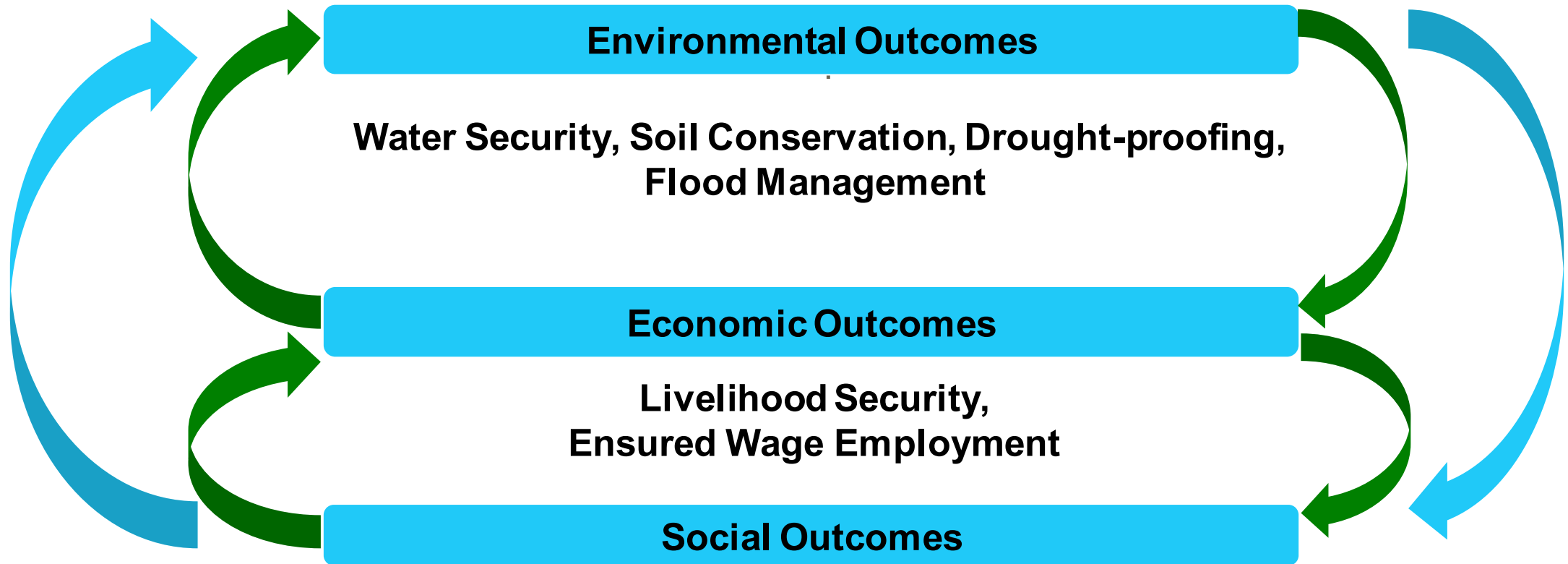
Planning Procedures under MGNREGA

- MGNREGA is a **demand-driven** wage employment programme.
- A **prior assessment** of the quantum of work likely to be demanded, along with the anticipated timing of the demand.
- A shelf of projects is to be prepared and prioritized in order to meet this demand.
- The **Labour Budget (LB)** covers two aspects (i) assessment of quantum and timing of demand for work and (ii) preparation of a shelf of projects.
- The LB and Annual Action Plan of works are to be prepared by the Gram Panchayat during October-November every year.

Preparation of Development Plan and Shelf of Projects

#	Step	Action
1	Identification of needs	<ul style="list-style-type: none">▪ Consultations at the habitation level▪ Stakeholder consultations to determine priorities.
2	Identification of Resource Envelope	<ul style="list-style-type: none">▪ Identify resources available from schemes like IWMP, PMKSY, ICDS, Agricultures, Forest, Irrigation, RD&PR , FC/SFC, etc.▪ Develop a convergence plan to pool in resources.
3	Preparation of Plan	<ul style="list-style-type: none">▪ The planning team required to prepare the plan.▪ Watershed principles to be considered in the plan preparation.
4	Approval of Gram Sabha	<ul style="list-style-type: none">▪ Presentation to Gram Sabha for approval▪ Prioritisation of works
5	Plan Finalization	<ul style="list-style-type: none">▪ Plan should ensure 60% of expenditure on Agri& Allied works▪ Special meeting of the Gram Panchayat to be organised for finalizing plan without altering the priorities decided by Gram Sabha

Plan should be Outcomes Focused



Community Participation in Planning, Inclusion of Socially Excluded Groups, Transparency in Plan Preparation and Work Allocation



II. Process & Timeline for Process of Integrated Gram Panchayat Development Planning under MGNREGS using Geospatial Technology

Step-1: Accumulating and Systematising the Information

(Week 1)

A: Secondary Information Collection and Analysis (Non-Spatial & Spatial)

- I. Brief of Gram Panchayat Area ([Area](#))
- II. Socio-Economic profile ([SEP](#))
- III. MGNREGA Profile ([MP](#))
- IV. Completed & On-going Works for NRM on Common & Individual Land ([C&O](#))
- V. Natural Resource Profile : common lands, forests, pastures, degraded and waste lands etc. ([NRP](#))
- VI. NRM Livelihood Profile : Crop Areas Information, Crop Areas Information, Availability of Drinking water, Status of Irrigation Facilities-Ground Water. ([NLP](#))
- VII. Water Profile: Drinking Water Requirement, Drinking Water Requirement, Details of slope, Water Run-off , Stored Water in Harvesting Structures & Water Budgeting ([WB](#))



Step- 2: Consultative process with available Statistical & Spatial Information for Prospecting and Identifying Potential for Works (Week 2)

- The consultative process should be organised at hamlet, ward, village and GP level for participatory planning.
- The Planning team have meeting for concept seeding using secondary information collected with the villagers to understand the objectives and process for developing Integrated GP Developing Plan at village/ ward level.
- Simplified Thematic print outs of maps/images shown using a projector to be used for rational and scientific planning for identifying of potential NRM works and site identification
- Identified works to be analyzed on economic, environmental and social aspect on scientific perspective, before prioritisation and mapping.
- The identified NRM works are then to be listed and mapped on watershed principles, and Non-NRM are to be listed on priority ranking.

Step -3 Development of Key Integrated GP Development Plan Thrust areas and Works for GPs (Week 3)



G.1 Scoping for NRM & Non-NRM Works of Jawad GP

Scoping for INRM Works	No/Area Hect. /Ha
INRM activities for SC & STs Families	397
BPL Families	665
INRM activitise for Marginal Farmers	336
Registered Job cards	1086
Active Job cars	591
Common Land for SWC Works i.e. forest, pasture & revenue land:	
1. Forest Land	86
2. Pasture land	177
3. Revenue land	76
Total (Ha.)	339
Irrigation Activities for Un-irrigated Land (Ha.)	478
land Development to convert Fallow Land for cultivation (Ha.)	573
NRM interventions for Un-cultivable land (Ha)	76

G.2 Information on Labour Budget of Jawad GP

G.2 Information on Labour Budget		
Number of Job card Issued		1086
Number of Active Job card		591
Average Employment of Household		55
Person days generated in years		32505
Average wage rate		192.00
Material		128.00
Total		320.00
Amount of labour Budget (Lakhs)		
	Labour	Total
	62.41	104.02
Maximum amount for works (Lakhs)		
	Labour	Total
	124.82	208.03

G.3 Available Basic Amenities in the Jawad Gram Panchayat

A. Brief Information of Infrastructural Amenities

- 7 Government High & Primary School
- 1 Government Primary Health Center (PHC)
- 1 Government Veterinary Hospital
- 1 Patwar Ghar (Revenue Office)
- 1 Police Chokki
- 1 Bharat Nirman IT Centre (MGNREGA)
- 1 Food Grain Storage Structure (MGNREGA)
- Model Play ground (MGNREGA)
- 28 Rural road completed and 9 have been approved (MGNREGA)

B. 21 NRM works have completed (MGNREGA)

C. 515 Individual Beneficiaries works. 245 are NRM and 306 for Rural Housing

Integrated Gram Panchayat Development Plan



- Annual action plan are prepared under MGNREGA for forthcoming years in a systematic manner based on above steps – a Plan template is used and filled up.
- The coordinates (Longitude & Latitude) of the identified potential works and their specific sites are collected and mapped onto RS & GIS.
- The proposed works are then tabulated, as per following table:

Prospect and Potential for NRM & Non-NRM Works

Proposed Potential NRM works under MGNREGA							
S.N.	Name of Village	Work Category	Name of Work	Implementing Agency	Longitude	Latitude	Expected Outcomes



Step-4: Gram Sabha meeting and approval of Integrated GP Development Plan & Annual action Plan (Week 3)

Step-5: Finalisation of Integrated GP Development Plan under MGNREGA using Geospatial Technology (Week 4)



G.4 Proposed NRM and Non-NRM Works under MGNREGA (Amount in Lakhs)

Work Category	Number of Works	Labour	Material	Total
Drought Proofing	23	26.50	7.65	34.15
Land Development	22	58.00	11.50	69.50
Micro Irrigation	3	22.50	32.50	55.00
Renovation Traditional water Bodies	8	24.10	8.40	32.50
Water Harvesting & Conservation	30	40.35	28.85	69.20
Rural Drinking water	14	14.00	7.00	21.00
Individual Beneficiary (Package Works)	270	202.50	135.00	337.50
Rural Connectivity	11	27.00	37.00	64.00
Rural Infrastructure	5	9.00	18.00	27.00
Rural Sanitation	8	10.80	7.20	18.00
Total	394	434.75	293.10	727.85

G.4 Estimated Water Harvesting from Proposed Water Conservation, Harvesting & Recharge Works

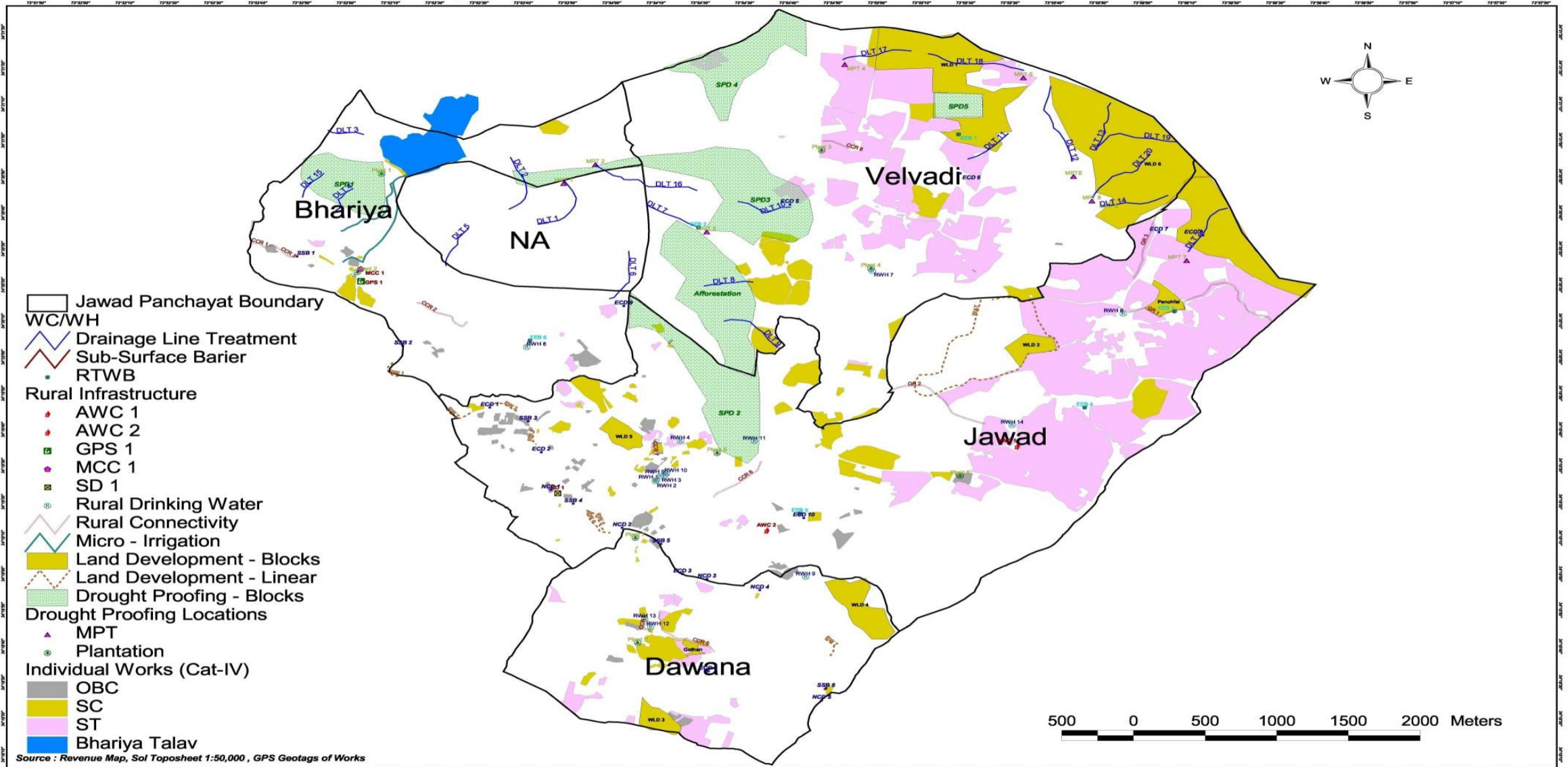
Work Category	Number	Water Harvesting (Ha.M)	Total Water H	
Micro Percolation Tank (MPT)	9	0.25	02.25	
Talab & Nadi Renovation	8	1.25	10.00	
DLT	9	0.5	4.50	
WHS (Anicut) Repair	9	0.5	4.50	
WHS (Anicut) Construction	5	0.8	4.00	
Roof Top Water Harvesting	14	0.035	0.50	
	54		24.25	

- 20.2 Ha.M water is required for Gram panchayat
- 54 water conservation related works are planned, those will have estimated water conservation capacity for 24.25 Ha.M
- 14 anicuts will be benefiting to raise water table of 50 wells
- 6 Sub-Surface Barrier (SSB) will be benefiting to raise water table of 40 wells
- 6500 Meters of irrigation channels for benefiting 100 hectares, will helps double cropping

G.4 Brief Description of Proposed NRM and Non-NRM Works under MGNREGA

- 23 drought proofing & 22 land development works to develop of 339 hectares of land
 - 40 hectares plantation on forest land
 - 100 hectares of pastures land will be developed to ensure fodder for 5992 livestock's, which are important for livelihood.
- 6 KM of retaining wall on 12 drainage to protect land development
- About 25000 plants will planted on road side and government building premises.
- 270 individual beneficiaries (packages works) to develop 573 hectares of fallow land
- Model Gothan (common cattle resting place) to promote livestock business.
- Panch-Fal in 5 hectares and Model Talab planned under MGNREGA
- Crematoria is planned under convergence scheme, which have mandatory plantation activities
- 2 Aganwadi center building under convergence scheme with ICDS.
- Boundary wall in primary school
- 8 drainage for safe disposal of household used water under rural sanitation
- Milk collection center is proposed for 'Milk Corporative Federation'
- 11 rural connectivity works are planned. Gram Panchayat has 4 revenue villages and 33 habitations, all weather connectively is top priority.

Proposed Activities - Jawad Gram Panchayat



Prepared By



Society for Promotion of
Wastelands Development

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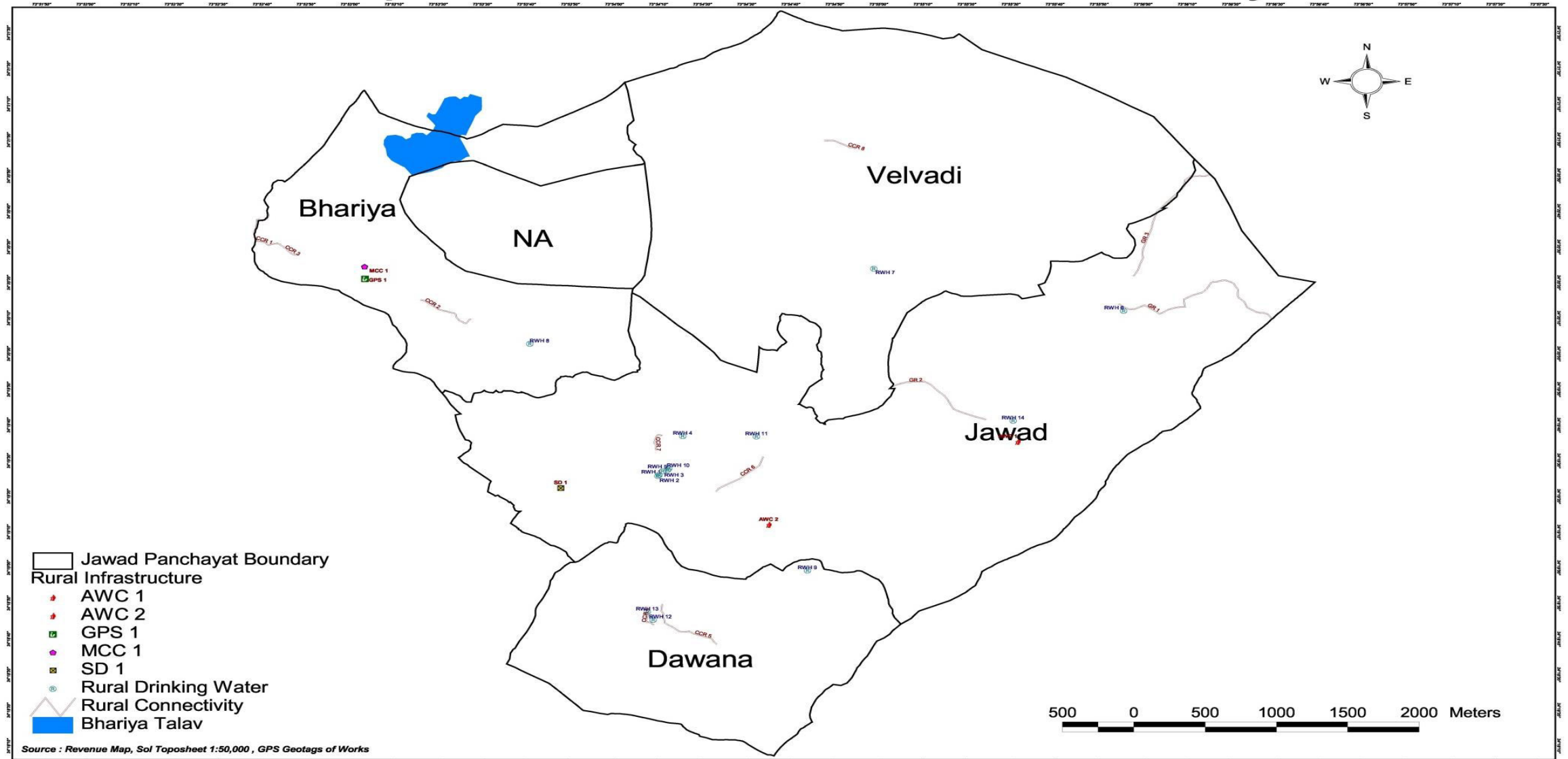


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Proposed Non-NRM Activities - Jawad Gram Panchayat



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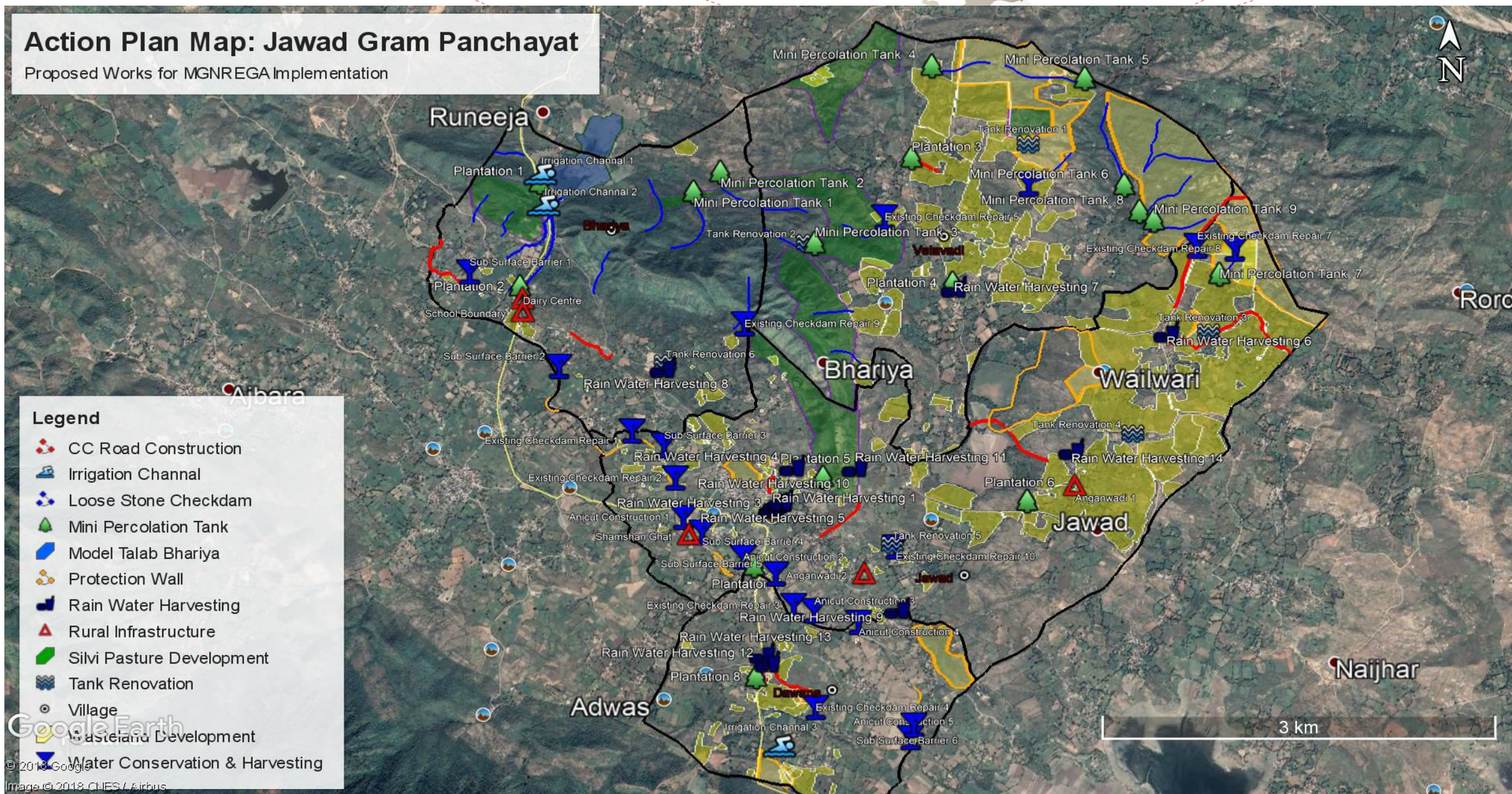


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Action Plan Map: Jawad Gram Panchayat

Proposed Works for MGNREGA Implementation



III. Use of Spatial & Non-Spatial GIS & RS information in MGNREGA Planning



1. Thematic outputs generated by GIS are important for **rational and scientific planning** with villagers for identifying potential NRM & Non-NRM works and site identification
2. Identified works need to be **analyzed** on economic, environmental and social aspects, including water-budgeting etc.
3. The identified NRM works need to be **listed and mapped** on watershed principles.
4. Simplified maps and thematic overlays are useful to **validate** results with the information providers or use their **local knowledge** in decision making.
5. This exercise enables the community to express **local needs** into plans, actions and results on a **spatial platform** that can later be used for monitoring, reporting etc.
6. It also ensures **active participation** of community in management of GP level Integrated Development Plan.

VI. Approach for Integrated GP Development Planning Using Geospatial Technology



1. District & Block officials responsible for driving MGNREGA planning process need to be enabled to have basic hands on GIS & RS skills and information to take up **accurate** and **quick Integrated GP Development Plan**.
2. **Saksham GIS Facility Centre** is proposed in a District-cum-Block model for helping officials and GPs to process the relevant information in GIS environment and to prepare Integrated GP Development Plan for MGNREGA. [Proto-Type of SGFC](#) & [Core Services provided by a SGFC](#)
3. A **Saksham Plus** follow up capacity building process is proposed to create the needed technical capacity
4. e – Saksham (A Digital Learning Platform for MGNREGS) [E-Saksham Presentation.pptx](#)
5. Digital plan outputs coming out of **Integrated GP Development Plan under using Geospatial Technology** process provide a seamless and quick/automatic way to feed large number of plans into the **SECURE** software for quick work estimation, technical assessment, approval, disbursement and monitoring.



THANK YOU

A. Brief of Gram Panchayat Area



The information in the table below format provides basic information about the GP which is important for understanding NRM context and relevance of watershed principles with reference to MGNREGA interventions

Name of Gram Panchayat	Jawad
Block, District & State	Sarada, Udaipur, Rajasthan
Geographical area of GP	2323 Ha.
Latitude and Longitude of GP	24°21'11.92"N - 24°18'38.86"N 73°52'11.76"E- 73°56'41.06"E
Numbers of Revenue villages/Habitations in GP	4(Jawad, Dawana, Weladi & Bariya)
Name of catchment (as per river basin)	Jaisamand
Macro and Micro Watershed Name and Numbers	1301321103/1, 2, 3, 7, 8, 9 &10, 1301321104/1
Agro-climatic Zone of GP	III A
Average Rainfall	750 mm
Status of Ground Water (Over-exploited, Critical & Semi-Critical)	Over-exploited

B. Socio-economic profile (Sources: Gram Panchayat /Census 2011)

B.1 Population

Total Population			Category wise Population		
Male	Female	Total	SCs	STs	Total
2726	2954	5680	243	1498	1741

B.2 Vulnerable Household Information

Category Wise Families					
BPL	Landless	Small Farmers	Marginal Farmers	SCs	STs
665	106	448	336	67	330



C. MGNREGA Profile (Sources: MIS-MGNREGGA)

C.1 Mahatma Gandhi NREGA Job card Holders				
S.N.	Registered Job cards		Active Job Cards	
	HHs	Register Person	HHs	Register Person
Total	1086	2970	591	1037

C.2 Performance of MGNREGA (Last 4 Years) (Sources: MIS-MGNREGGA)

S.N	Progress	2017-18	2016-17	2015-16	2014-15
1	Person days Generated so far	18,513	21,246	18,598	12,668
2	SC person days % as of total person days	0.12	0.06	0	0
3	ST persondays % as of total persondays	86.1	87.73	86.92	90
4	Women Person days out of Total (%)	47.81	49.82	53.56	65.79
5	Average days of employment provided per Household	47.35	57.27	55.85	40.09
6	Average Wage rate per day per person(Rs.)	133.95	126.19	125.02	112.4
7	Total No of HHs completed 100 Days of Wage Employment	41	54	49	12
8	Total Households Worked	391	371	333	316
9	Total Individuals Worked	629	528	496	450
10	Differently abled persons worked Works	0	0	0	0
11	Total No. of Works Take-up (New+ Spill Over)	131	175	150	54
12	Number of Ongoing Works	55	122	145	52
13	Number of Completed Works	76	53	5	2
14	% of NRM Expenditure(Public + Individual)	4.88	20.28	34.7	20.36
15	% of Category Individual Works (B)	86.26	88.57	88	68.52
	Total	22.2	50.09	19.16	26.14

C.3 a Completed & Ongoing NRM Works on Common & Individual Land under MGNREGA (Sources: MIS-MGNREGGA)

S. No.	Category	No.	Expenditure (lakhs)
1	Water Conservation & Water Harvesting	4	24.64
2	Renovation of Traditional Water Bodies	10	19.34
3	Flood Control & Protection	0	0.00
4	Drought Proofing	3	5.61
5	Coastal Area	0	0.00
6	Land Development	1	2.60
7	Micro Irrigation Works	51	41.03
8	Fisheries	0	0.00
9	Works on Individual Land (Packages works)	139	37.70
	Total	208	130.92

C.3 b Completed & Ongoing Works for Non-NRM under MGNREGA Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

(Sources: MIS-MGNREGGA)

S. No.	Category	No.	Expenditure (lakhs)
1	Rural Connectivity	28	129.00
2	Rural Infrastructure (Grain Storage Structure)	1	8.68
3	Rural Infrastructure (IT Centre)	1	8.55
4	Individual Rural Housing (PMGAY)	244	12.00
5	Rural Drinking Water	0	0.00
6	Rural Sanitation	0	0.00
	Total	274	158.23
	Grand Total	482	289.15

C.4 Approved New NRM & Non-NRM Works under MGNREGA

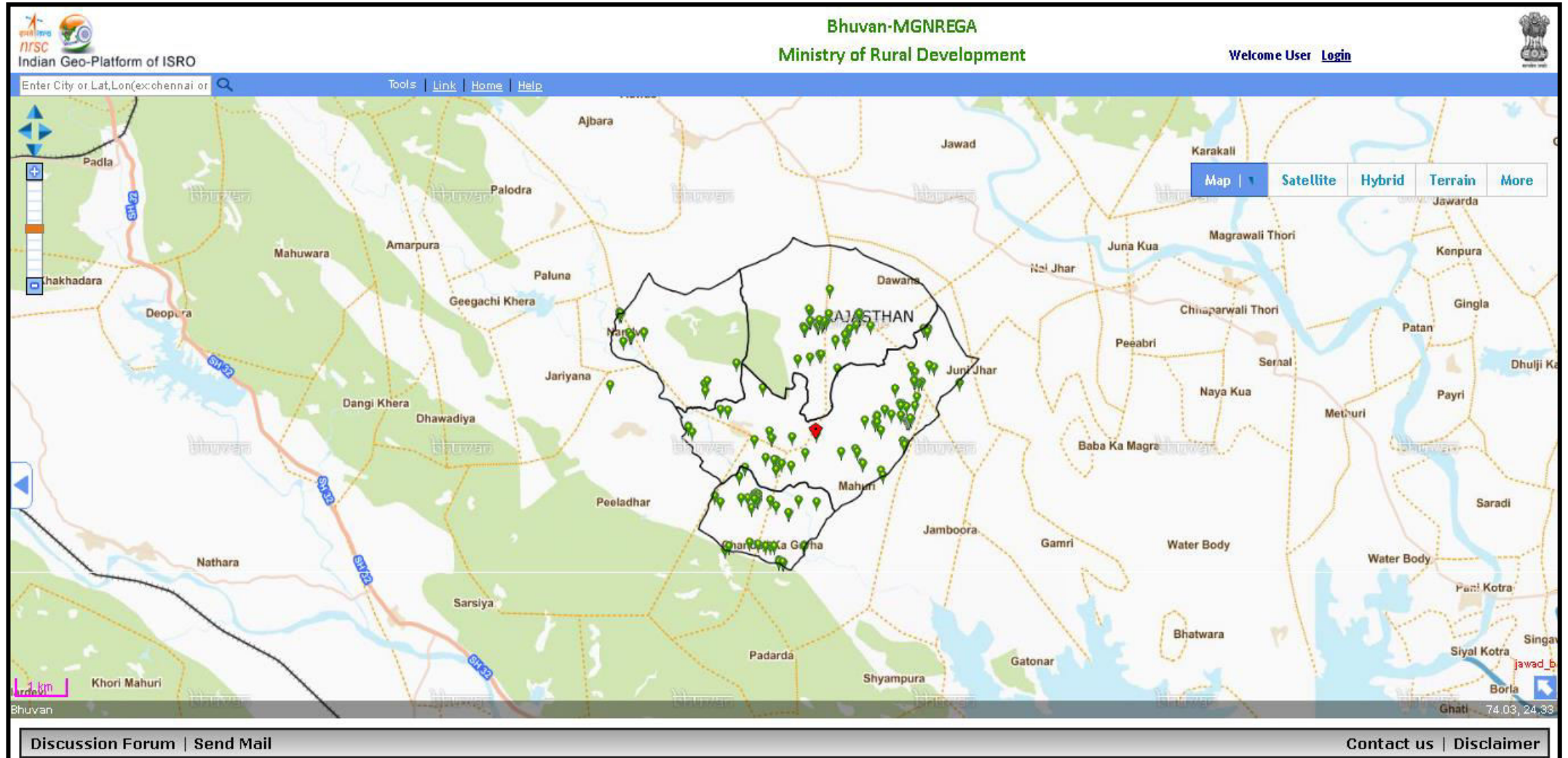
(Sources: MIS-MGNREGGA)

S. No.	Category	No.
1	Renovation of Traditional Water Bodies	1
2	Rural Connectivity	9
3	Works on Individual Land (Packages works)	44
4	Individual Rural Housing (PMGAY)	62
	Grand Total	119

The Major works are completed and Ongoing works under MGNREGA :

- 21 NRM works have completed (MGNREGA)
- 515 Individual Beneficiaries works. 245 are NRM and 306 for Rural Housing
- 1 Bharat Nirman IT Centre (MGNREGA)
- 1 Food Grain Storage Structure (MGNREGA)
- Model Play ground (MGNREGA)
- 8 Rural road completed and 9 have been approved (MGNREGA)

Geo-MGNREGA Map



[back](#)

D. Natural Resource Profile



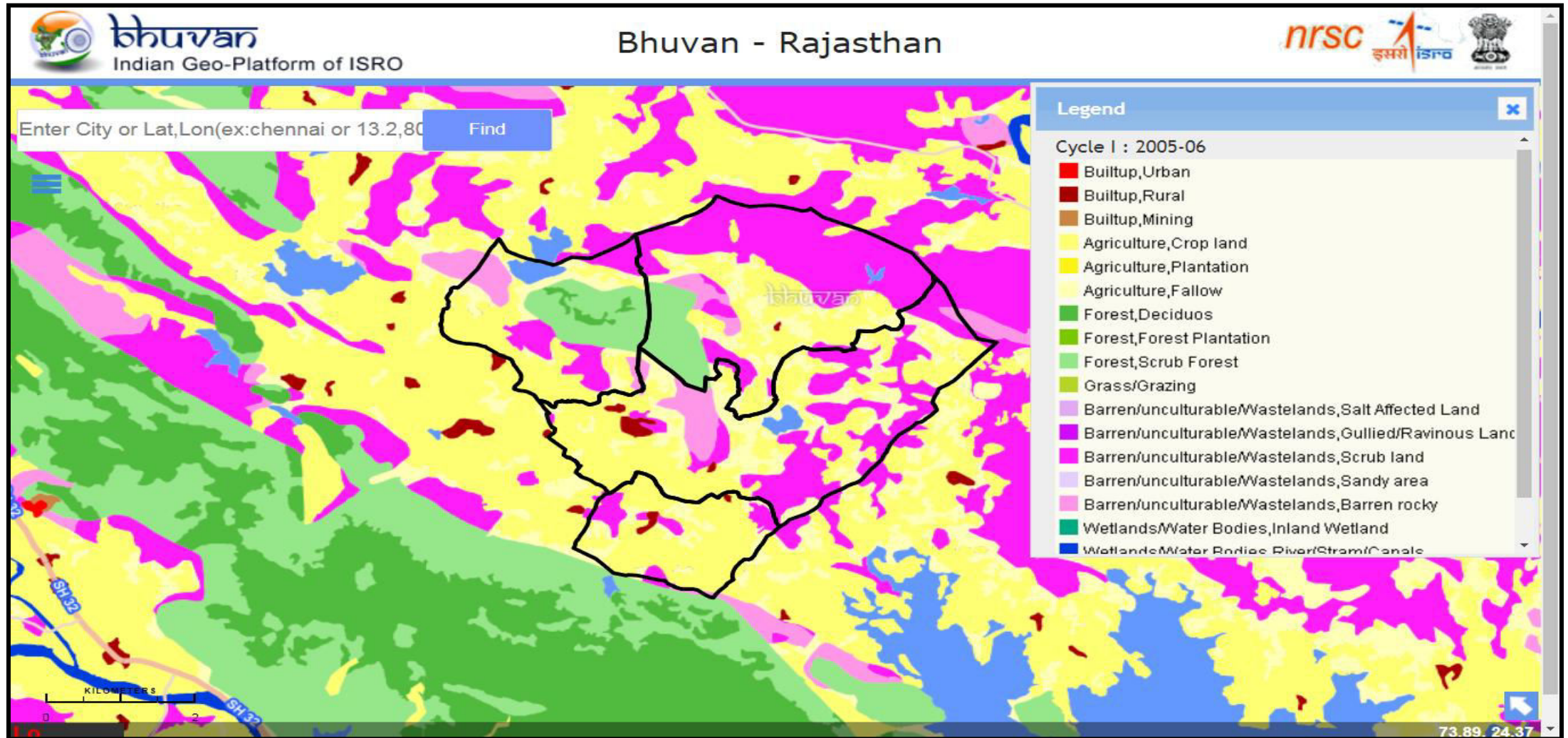
D.1 Information of Land Use (Ha.) (Source: Land Revenue department / Census 2011)

Area	Irrigated	Un- irrigated	Agricult ural Able Land	Non- Agricultural Able Land (Individual land	Pasture Land	Un- cultivable/ Revenue land	Forest land
2324	106	478	573	828	177	76	86

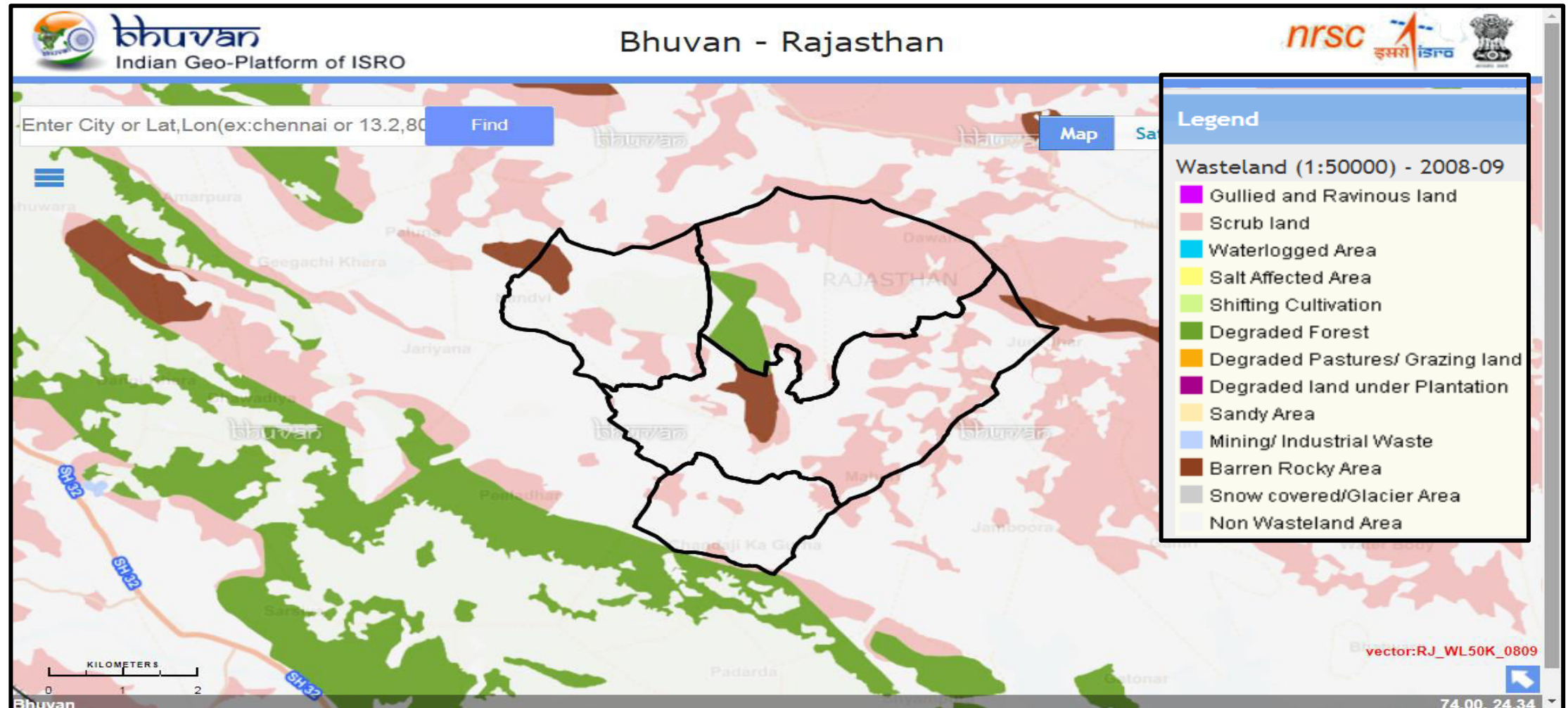
D. 2 Details of Common Lands (Forest, Pasture, and open areas including sacred grooves) (Source: Land Revenue department / Census 2011)

Forest	Pasture	Open Areas	Sacred Grooves	Others	Total
86	177	76	0	0	339

Land Use land Cover Map



Wasteland Map

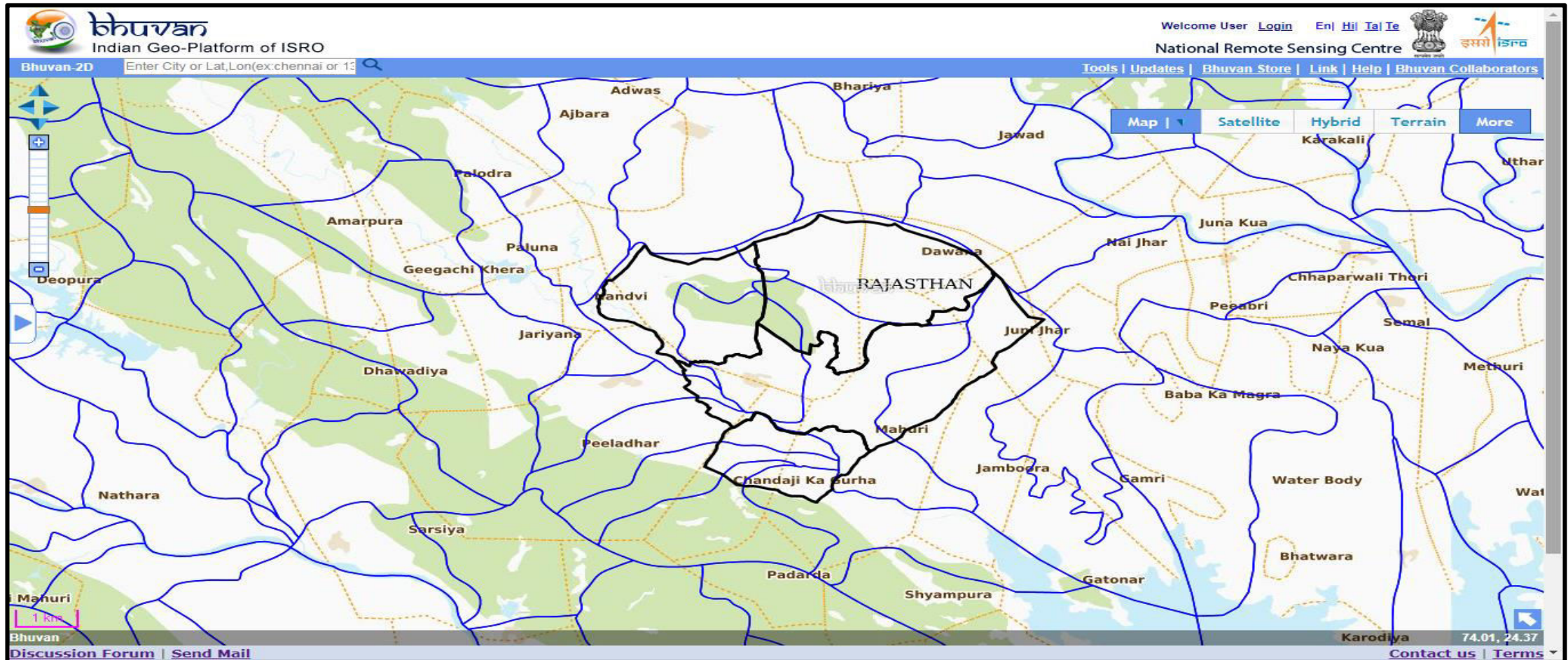




D. 3 Land Use Detail of Micro Water Sheds (Source: watershed Atlas)

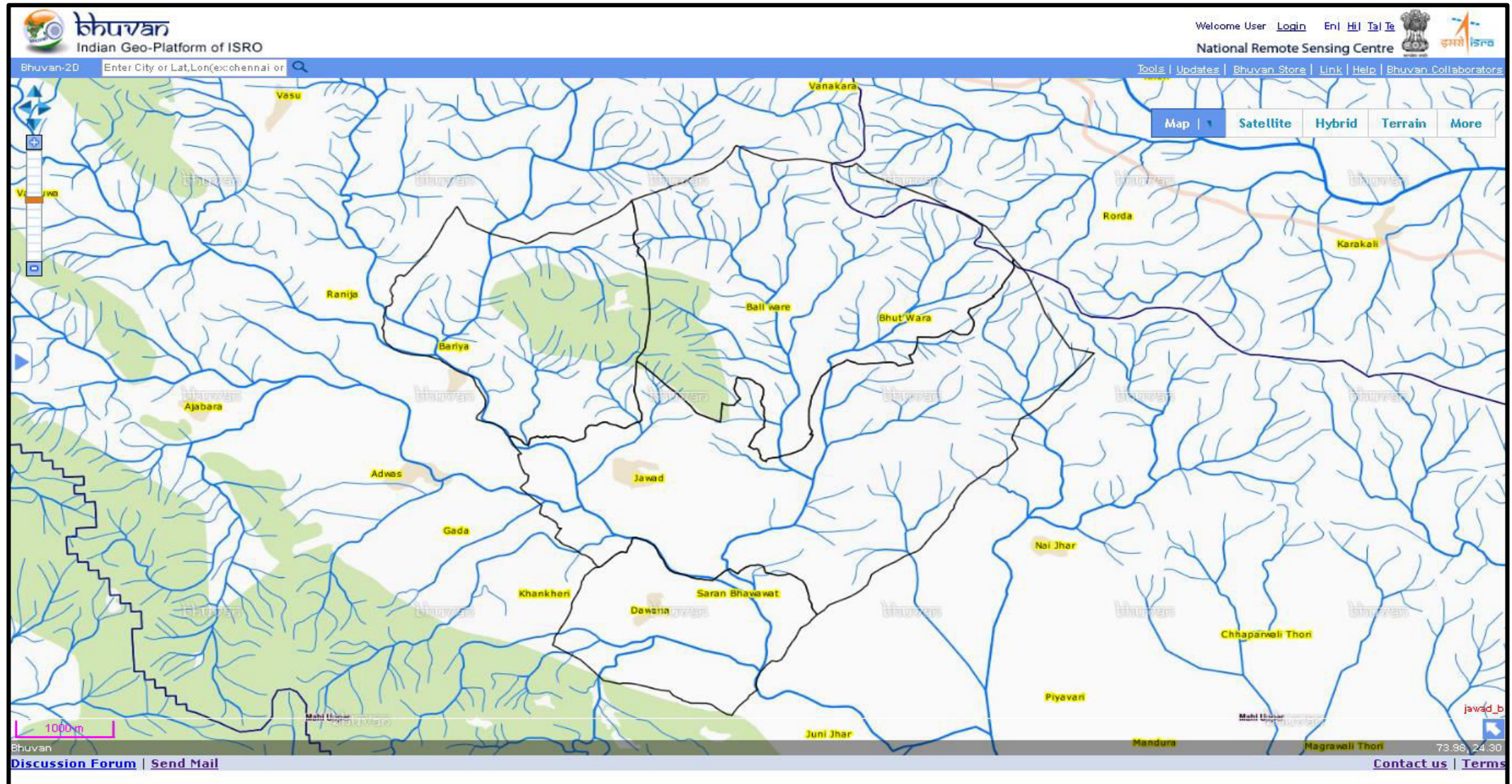
S.N.	Macro W/S No	Name	Area (Ha.)	Micro W/s Code
1	1301321103	Jawad	1125	1301321103-1
2	1301321103	Jawad	355	1301321103-2
3	1301321103	Jawad	375	1301321103-3
4	1301321103	Jawad	430	1301321103-7
5	1301321103	Jawad	250	1301321103-8
6	1301321103	Jawad	405	1301321103-9
7	1301321103	Jawad	447	1301321103-10
8	1301321104	Naljhar	1887	1301321104-1

Watershed Map



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Drainage Map



E. NRM Livelihood Profile



E. 1 Rainy Season (Kharif) Crop Areas (Source: Land Revenue department)

S.N	Name of Crop	Area (Hectare)
1	Maize	520
2	Groundnuts	0
3	Arhar	0
4	Soyabean	0
5	Bajra	0
6	Gaur	62
7	Urad	15
8	Moong	45
Total		642

E. NRM Livelihood Profile



E.2 Winter Season (Rabi) Crop Areas (Source: Land Revenue department)

S.N	Name of Crop	Area (Hectare)
1	Wheat	152
2	Gram	26
3	Onion	0
4	Potato	0
5	Garlic	0
6	Mustard	20
7	Barley	49
Total		247

E.3 Livestock Census (Source: Livestock Census, 2014, Dept of Animal Husbandry/website: farmer.gov.in)



Large Ruminant	Small Ruminant	Poultry-Birds	Total
3141	2366	415	5922

E.4 Fodder Demands (Source: Livestock Census, 2014, Department of Animal Husbandry)

Category	Number	Per Day Fodder Requirement	Annual Requirement	Deficit/ Adequate/Surplus
Buffaloes	1658	9.2	5568	1670
Indigenous Cow	1483	6.85	3708	1112
Oxen	0	9.2	0	0
Crossbreed	0	6.85	0	0
Sheep	1000	1.5	548	164
Goat	1366	1.5	748	224
Total	5507		10571	3171



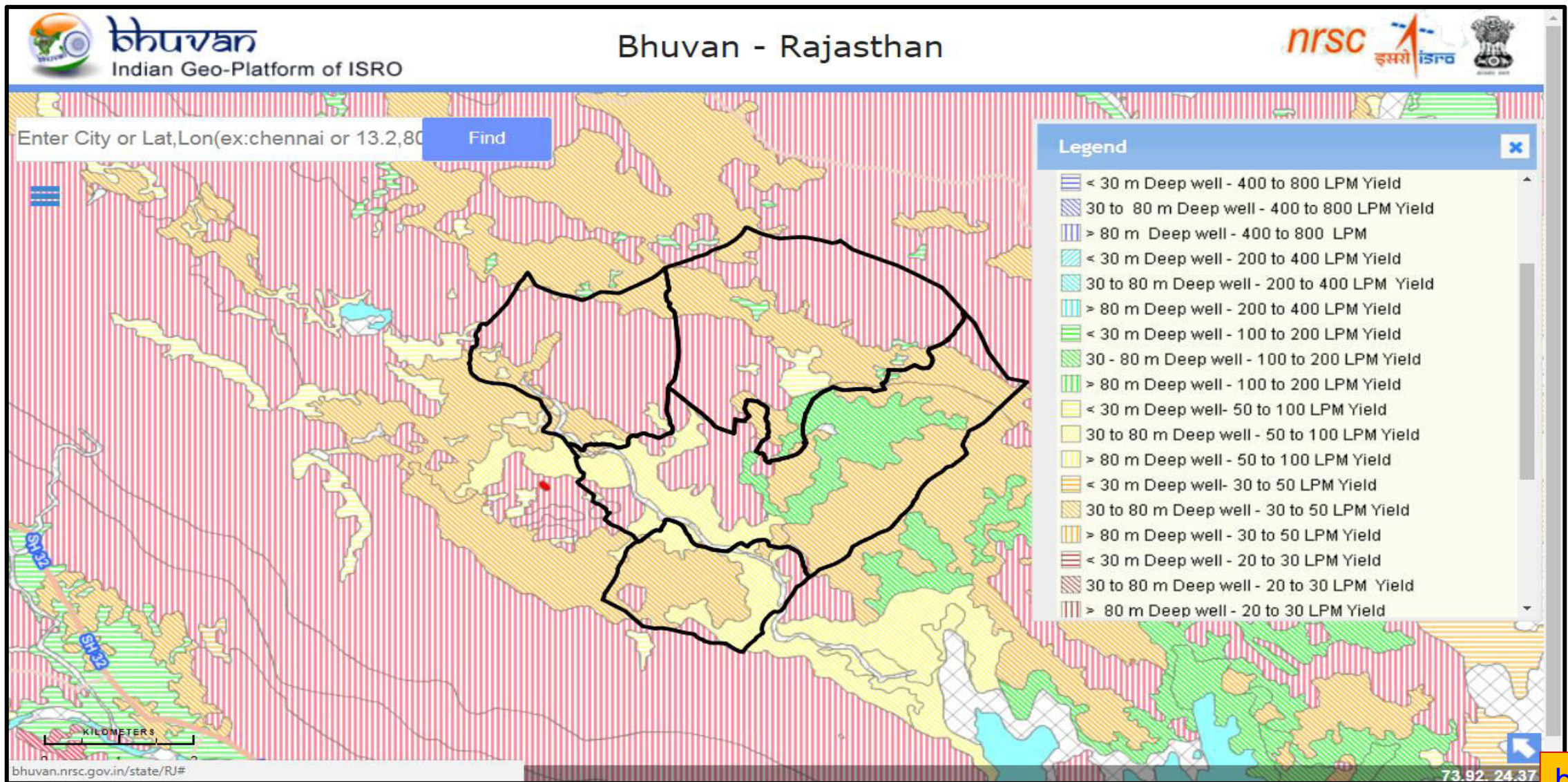
E.5 Availability of Drinking water (Deptt. of Public Health Engineering/GP)

Source			Maintenance Required
Type	Functional	Defunct	
Borwell	156	0	0
Hand pump	15	0	0
Open Well	1	0	0

E.6 Status of Irrigation Facilities-Surface (Source: Irrigation department/Gram Panchayat)

Source Type	Irrigated Area	Availability (Months)	Maintenance Required
Canal	35	6	0
Talab	0	0	0
River	0	0	0

Water Prospect Map





F.1 Drinking Water Requirement

Description	Number	Daily (Litres)	Total Water Required (Daily)
Human	5680	45	255600
Animal	3141	35	109935
Small Ruminant	2366	8	18928
Poultry-Birds	415	0.25	103.75
Total	11602		384566.75
Annual water requirement (Cum) ($D10 \times 365 / 1000$)			140366.86
Annually Water Required (Ha.M)			14.04



F.2 Water Requirement for Kharif Crops (Rainy Season)

Crop	Area (Hectares)	Water required per hectare (Ha-M)	Water Required at Present	Demands of water fulfilled by groundwater	Requirement of additional Water
Maize	520	0.2	104.0	83.2	20.8
Ground nuts	0	0.2	0.0	0.0	0.0
Arhar	0	0.2	0.0	0.0	0.0
Soabin	0	0.2	0.0	0.0	0.0
Bajra	0	0.2	0.0	0.0	0.0
Gaur	62	0.2	12.4	9.9	2.5
Urad	15	0.2	3.0	2.4	0.6
Moong	45	0.2	9.0	7.2	1.8



F.2 Water Requirement for Rabi Crops (Winter Season)

Crop	Area (Hectares)	Water required per hectare (Ha-M)	Water Required at Present	Demands of water fulfilled by groundwater	Requirement of additional Water
Wheat	152	0.45	68.4	54.7	13.7
Gram	26	0.45	11.7	9.4	2.3
Onion	0	0.45	0.0	0.0	0.0
Potato	0	0.6	0.0	0.0	0.0
Garlic	0	0.4	0.0	0.0	0.0
Mustard	20	0.25	5.0	4.0	1.0
Barley	49	0.35	17.2	13.7	3.4
				Total	46.1



F.3 Details of slope (Source: Land Revenue Department)

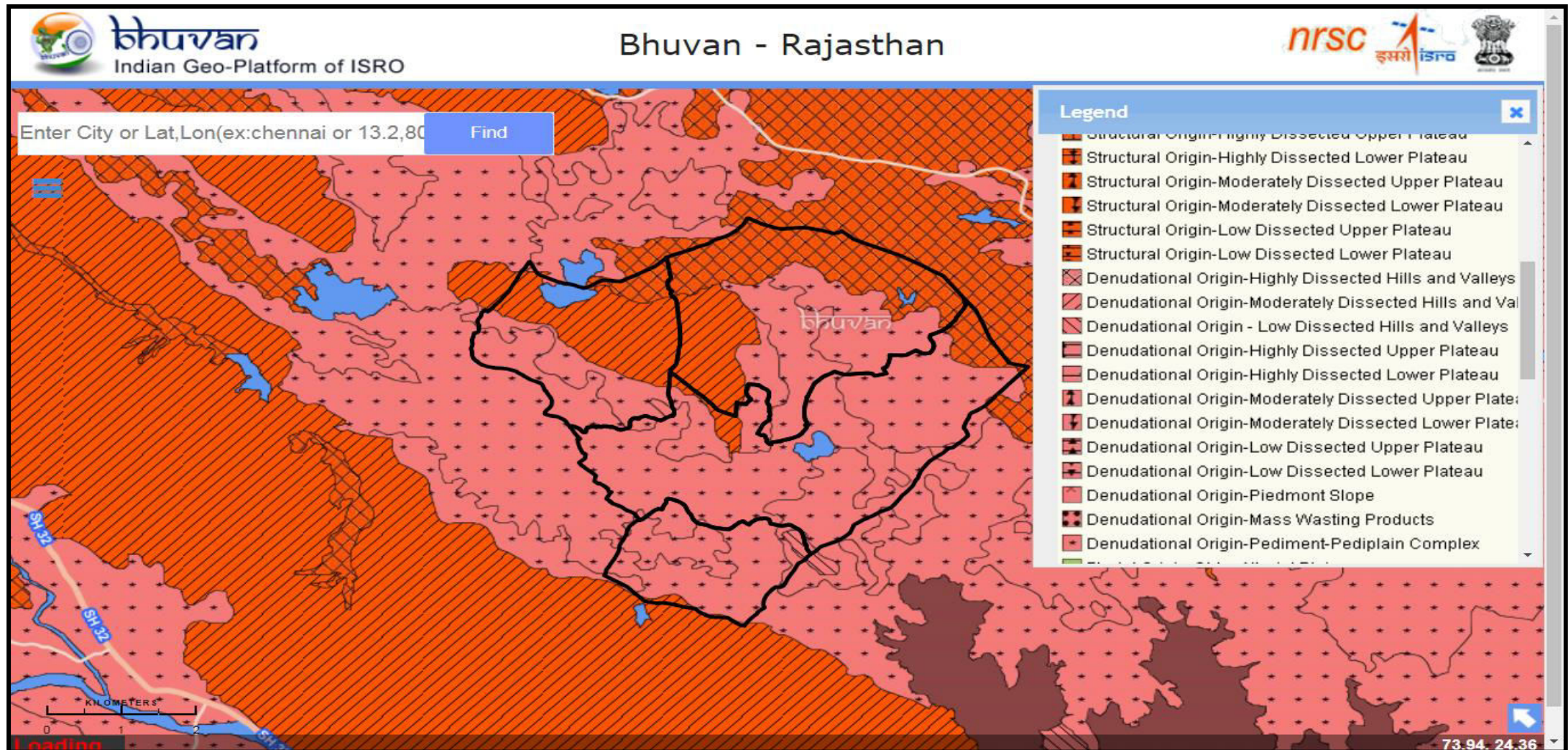
S.N.	Status of Slope	Topography	Area (Hectares)
1	0 - 5%	Low lands (Farm lands)	649
	5 - 10%	Medium lands (Pastures& Open Area)	1088
2	10% and above	Upper reaches & Forest area	586
		Total	2323



F.4 Amount of Run-off (To be calculated from Strange's table method)

		Area (Hectares)		Per hectares production of rain water run-off (TCM)	Volume of run-off (TCM)
1	Types of Run-Off				
A	Good Run-Off Area	586	26.3	1972.5	115.6
B	Average Run-Off Area	1088	19.7	1477.5	160.8
C	Bad Run-Off Area	649	13.1	982.5	63.8
Total		2323			340.1

Geomorphology Map





F.5 Stored Water in Harvesting Structures (Source: Gram Panchayat)

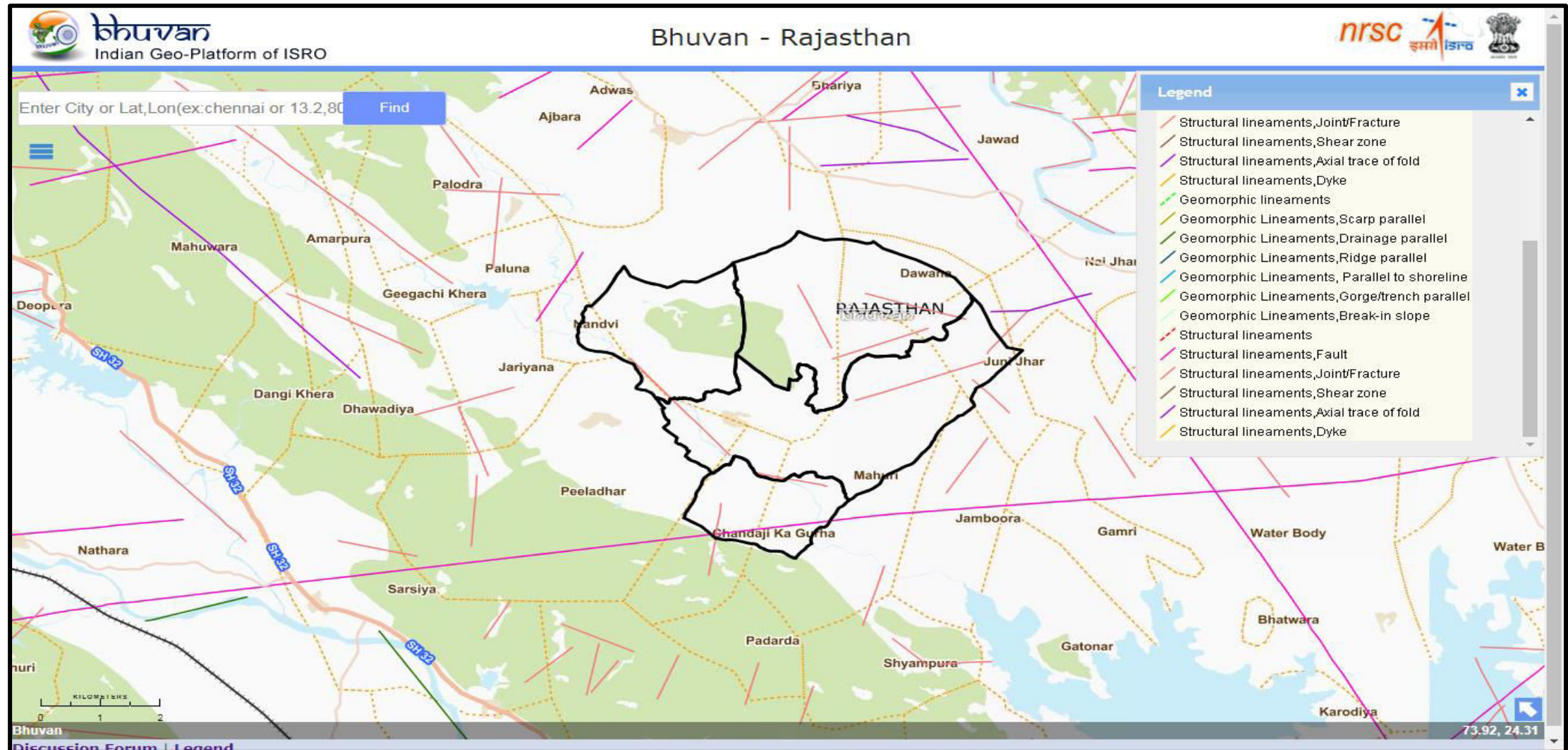
S.N.	Name of Structure	Existing Structures	
		No.	Storage Capacity (TCM)
1.	Talab	10	30
2.	Farm Pond	0	0
3	Anicut (WHS)	12	10
	Total	22	40.00

F.6 Village Wise Water Budgeting (Ha.M.)



S.N.	Name of Village	Volume (Ha.M.)
1	Water for Agriculture (Table F.2)	46.1
2	Water for Human & Animal (Table F.1)	14.04
3	GP Water Required (1+2+3)	60.2
4	Available run-off from rain water (Table F.4)	340.1
5	Harvested Runoff from Water Harvesting Activities (Table F.5)	40.0
6	Water deficiency/Surplus(3-5)	-20.2
7	Available water for recharge (75% of Available run-off)	215.0
8	Available discharge water at exit (4-5)	300.1

Structural Geology map (lineaments Map)



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Proto-Type of SGFC



S. N	Item	Quantity	Particulars
Fixed Infrastructure			
1	All in one PC	3	A basic hardware and software unit to access Web GIS services
2	A3 Printer cum Scanner	1	To get hardcopies of outputs and computerizing information available in hardcopy
3	Projector	1	For sharing information and outputs at GP/local level
4	Handheld GPS	3	For Geo-coding and elevation profiling of work sites
5	Webcam	1	For online consultation with experts
6	LED TV	1	For live-demonstration and training of key personal
7	Air Conditioner	1	For proper working environment
8	Inverter	1	For power backup
9	Office furniture	3 units	For sitting and working arrangement
Consumable & Recurring			
1	Operational cost	-	Stationary, computers consumables, internet etc.
2	Center In-charge	1	Executive/Assistant Engineer
3	Technical Person	1	Contractual personal (full time)-Post Graduate in Geography or Graduate in Agricultural Engineering / Civil Engineering



Core Services provided by a SGFC

1. **Technical backstopping** to Block/District Technical functionaries for facilitating Integrated GP Development Plan under MGNREGA using Geospatial Technology
2. **Knowledge sharing platform** for GP level functionaries for decision making
3. Assessing **technical feasibility** of works as proposed by GPs
4. Arriving at necessary **technical specifications** / characterisation of required NRM works
5. Defining **expected results/outcomes** of intended/executed NRM works
6. Extending technical services for **monitoring & impact assessment**
7. Providing thematic outputs crucial Spatial/ Non-Spatial for conducting **Social Audit**
8. **Measuring/Recording** SDG/CCA benefits of NRM & Non-NRM works to be undertaken